KNOWLEDGE INSTITUTE OF TECHNOLOGY

Data-Driven insights on Olympic Sports Participation and Performance

DATA ANALYTICS

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OBJECTIVE

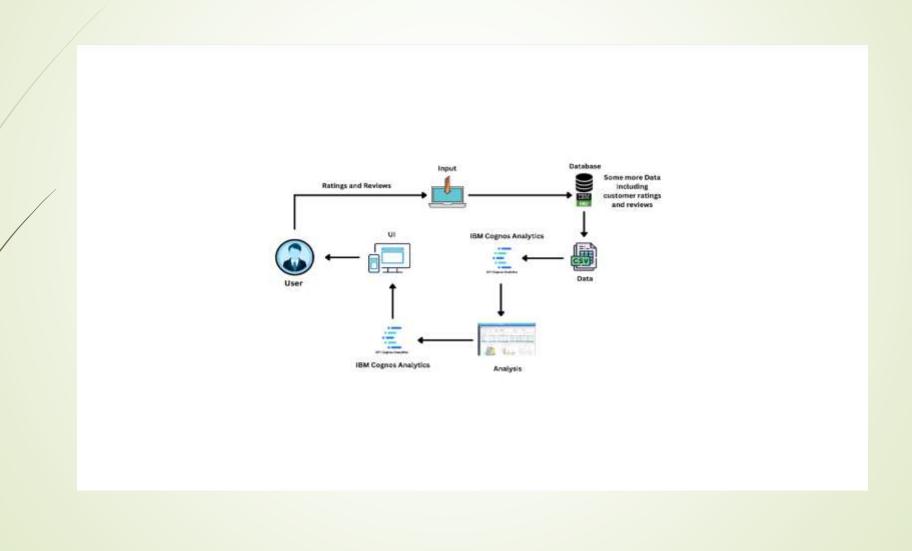- To analyses the "**Olympic Sports Participation and Performance**" using IBM Cognos.

ABSTRACT

⬛ The Olympic games are international sports events with more than 200 nations participating in various competitions. The Sportspersons from various countries participate in competitions and make their countries proud of their excellence in sports. Despite massive population, many most populous countries fail to grab many medals at the Olympic games. The primary objective of this paper is to analyze the Olympic dataset using python to compare overall performance of countries and to evaluate the contribution of each country in Olympics.

⬛ These analyses will give deeper insight into the performance of countries in Olympics over the years and helps sportspersons to quickly analyze their own and the competitor's performance. In this paper, the exploratory data analysis techniques are used to provide comparison between performance of various countries and the contribution of each country in Olympics. Visualization of Olympics dataset in many aspects provides the status of countries in Olympics and helps countries with poor performance to produce quality players and improve nation's performance in Olympics.

PROBLEM STATEMENT

➡ The purpose highlights the use of a data-driven technique to analyze historical participation and performance patterns in Olympic sports. It also mentions the sources of data that will be used, such as historical records, demographic, and socioeconomic statistics. Additionally, it outlines some of the key findings and insights that the analysis will reveal, including trends in gender diversity, increasing participation from different countries, performance variability among countries, and the influence of socioeconomic factors, athlete age, and experience on Olympic performance. The ultimate goal of the analysis is to provide valuable information that can be used to improve athlete development and promote participation in Olympic sports worldwide.

Solution architecture

TOOLS USED

- HARDWARE REQUIREMENS

    Processor   :   Intel Core i3

    RAM   :   8 GB

    Hard Disk   :   500 GB

- SOFTWARE REQUIREMENTS

    Operating System   :   Windows

    Language   :   HTML, CSS, JavaScript, Python

    Program – Tool   :   Visual Studio Code

    Web Framework   :   Flask

- TOOL REQUIREMENTS
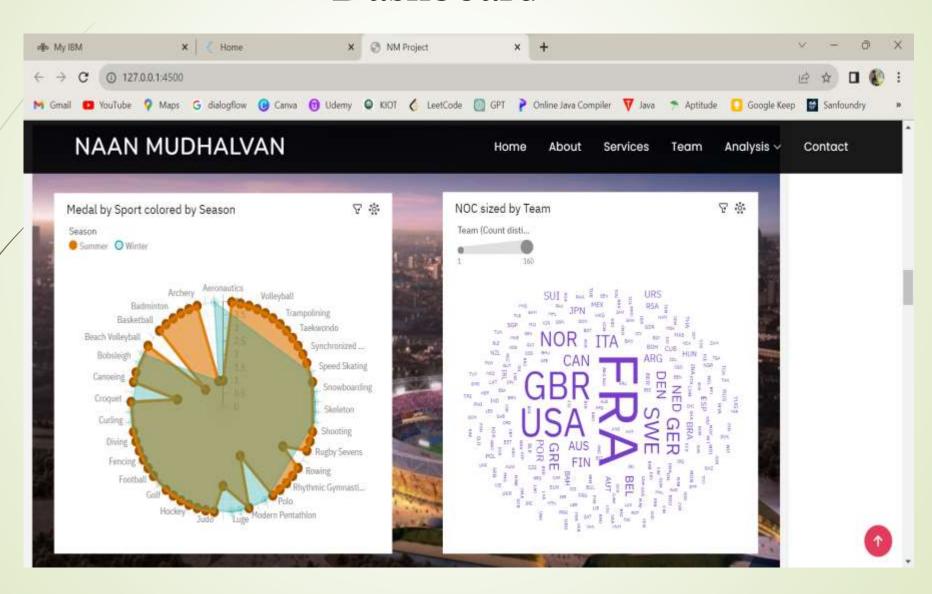
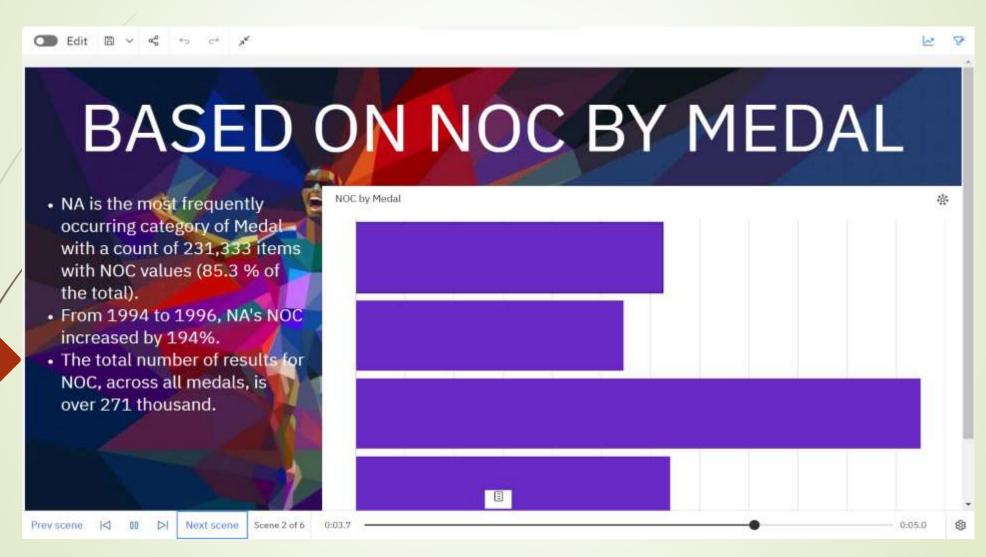   Operating System   :   Windows 10

    Disk Space   :   256 MB

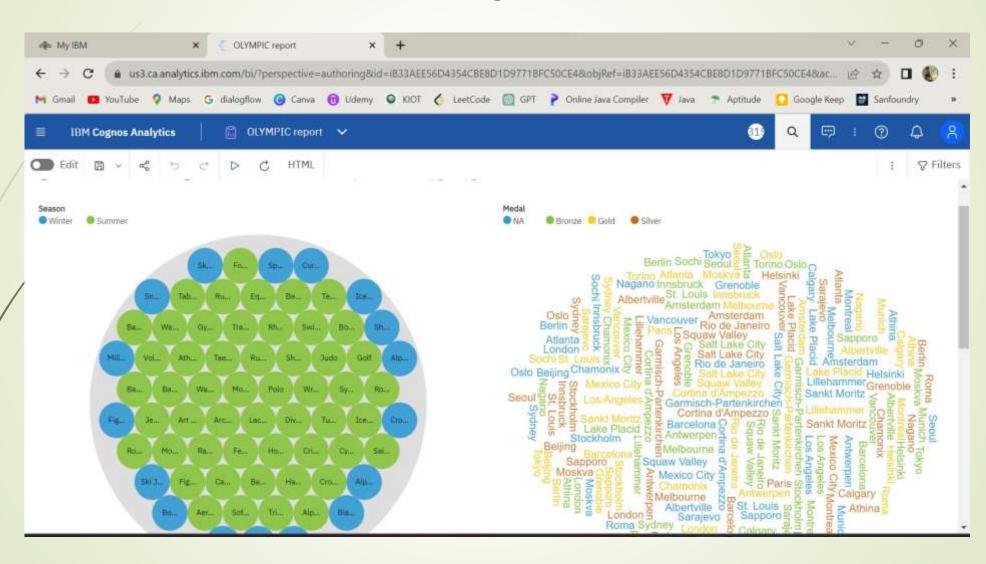   Processor   :   Intel atom processor

    Version   :   3.6.2

Dashboard

Story

STORY

REPORT

THANK YOU